Location Date/Time Deaths & Property & Event Type and Details
Injuries Crop Dmg

ILLINOIS, South

JEFFERSON COUNTY --- DIX [38.43, -88.93], 5.0 E MT VERNON [38.32, -88.81]

08/16/14 23:00 CST

0

Heavy Rain

Source: COOP Observer

08/17/14 07:00 CST 0

A co-operative observer measured 3.10 inches three miles northeast of Mount Vernon. A trained spotter measured 3.80 inches five miles east of Mount Vernon. These rainfall amounts were over a 12-hour period. Water was reported over rural roads in the Dix area, along with flooding of creeks and streams.

WHITE COUNTY --- CARMI [38.08, -88.17]

08/17/14 01:00 CST

0

Heavy Rain

08/17/14 06:00 CST 0 Source: Emergency Manager

An emergency management official measured 4.44 inches of rain. Lowland flooding was observed.

HAMILTON COUNTY --- MC LEANSBORO [38.10, -88.53], BELL PRAIRIE CITY [38.22, -88.57], DAHLGREN [38.20, -88.68], 2.0 WSW FLINT [38.06, -88.67]

08/17/14 02:00 CST

0

Flood (due to Heavy Rain)

08/17/14 10:00 CST 0 Source: 911 Call Center

Several secondary roads were impassable due to flooding. Portions of Illinois Route 14 were flooded west of Mcleansboro to the Franklin County line. Portions of Route 242 were flooded near Mcleansboro. The heaviest rain and flooding occurred from Mcleansboro west and northwest. A trained spotter in Mcleansboro reported his five-inch rain gage overflowed. Radar estimated from five to seven inches of rain in Mcleansboro and points west and northwest. These amounts were within a 12-hour period of time.

A large, slow-moving mesoscale convective system moved east-southeast across southern Illinois, producing locally heavy rainfall. The complex was fed by a southerly wind flow of tropical moisture, with precipitable water values over two inches. The south winds were in advance of a weak surface low pressure center over eastern Missouri.

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

08/19/14 01:00 CST 08/19/14 07:00 CST 0

Dense Foa

The combination of mostly clear skies, calm winds, and abundant low level moisture caused dense fog to form in many areas. The only exception was the Marion/Carbondale area. Visibility was reduced to one-quarter mile or less at times in the dense fog.

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

08/20/14 11:00 CST

•

Heat

08/27/14 17:00 CST

0

A prolonged period of late summer heat and humidity followed an unusually cool July. For seven consecutive days, the heat index peaked between 100 and 110 degrees each afternoon. The heat index reached as high as 115 at some locations in the Wabash Valley, including Carmi and Fairfield. Surface high pressure over the central Gulf coast region from the 20th to the 24th moved to the southern Appalachian Mountains by the 25th. This high produced a continuous supply of heat and humidity.

WAYNE COUNTY --- 2.9 ENE RINARD [38.58, -88.42]

08/20/14 22:30 CST 08/21/14 00:15 CST

5K 0 Heavy Rain

Source: 911 Call Center

U.S. Highway 45 was flooded near the Clay County line. A vehicle was stranded in floodwaters.

A cluster of thunderstorms with torrential rain moved slowly southeast, causing local flooding. The cluster of storms was fed by a moist southwest low level flow, with surface dew points in the lower 70's. Due to weak vertical wind shear and weak mid to upper level forcing, the storms tended to diminish as they crossed Wayne County.

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| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--------------------|-----------|----------------------|------------------------|------------------------|
| INDIANA, Southwest | | | | |

| VANDERBURGH COUNTY EVANSVILLE [37.98, -87.55] | | |
|---|---|----------------|
| 08/17/14 05:00 CST | 0 | Heavy Rain |
| 08/17/14 11:00 CST | 0 | Source: Public |

Minor street flooding was reported in Evansville. About 1.7 inches of rain was measured within 6 hours at the Evansville airport and at a trained spotter's residence on the southeast side of Evansville.

A mesoscale convective system moved east-southeast across southwest Indiana, producing locally heavy rainfall. The complex was fed by a southerly wind flow of tropical moisture, with precipitable water values over two inches. The south winds were in advance of a weak surface low pressure center over eastern Missouri.

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER

08/22/14 11:00 CST 0 Heat

08/27/14 17:00 CST 0

A prolonged period of late summer heat and humidity followed an unusually cool July. For six consecutive days, the heat index peaked between 100 and 110 degrees each afternoon. Surface high pressure over the central Gulf coast region from the 20th to the 24th moved to the southern Appalachian Mountains by the 25th. This high produced a continuous supply of heat and humidity.

KENTUCKY, Southwest

(KY-Z009) CALLOWAY, (KY-Z012) TRIGG, (KY-Z017) CHRISTIAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

Drought conditions that had started in parts of western Kentucky in July ended by late August. The area of moderate drought conditions extended from Murray to Hopkinsville and Elkton. Impacts of the drought were primarily agricultural. A report from Todd County indicated corn and early-planted soybean yields were projected to be reduced by about 50 percent. The drought ended in August due to the occurrence of thunderstorm complexes that tracked across the region.

HOPKINS COUNTY --- 2.5 SSW MADISONVILLE [37.30, -87.52], 2.3 SSW MADISONVILLE [37.30, -87.52]

 08/17/14 14:55 CST
 20K
 Thunderstorm Wind (EG 65 kt)

 08/17/14 14:57 CST
 0
 Source: NWS Storm Survey

A microburst with estimated peak winds of 75 mph damaged several structures and some trees. Four homes, a business, and a shed received some shingle damage. Large sections of a vinyl fence were blown down. Several large tree limbs were down. The damage area was about 500 yards long and 500 yards wide. The damage occurred along and just west of U.S. Highway 41.

HENDERSON COUNTY --- 2.3 W NIAGARA [37.72, -87.52], 1.3 SW NIAGARA [37.71, -87.50]

08/17/14 15:33 CST 40K Tornado (EF1, L: 1.65 mi , W: 60 yd) 08/17/14 15:36 CST 5K Source: NWS Storm Survey

This tornado was photographed by a sheriff's deputy and confirmed by a National Weather Service damage survey. Peak winds were estimated near 90 mph. There was minor roof and siding damage to three homes and a mobile home. Numerous large tree limbs were broken, and a couple of trees were uprooted. A large tree was down across a roadway. The path of the suction vortex was clearly evident in aerial photos of a cornfield. The tornado crossed Interstate 69, also known as the Pennyrile Parkway.

MUHLENBERG COUNTY --- 6.3 E CENTRAL CITY [37.30, -87.02], 2.3 NW PARADISE [37.30, -87.01]

08/17/14 16:31 CST 7K Tornado (EF0, L: 0.59 mi , W: 125 yd)

08/17/14 16:32 CST 5K Source: NWS Storm Survey

This small tornado blew down several small trees and limbs in multiple directions along County Road 1011. There were numerous reports of this brief touchdown that snapped trees and damaged a cornfield. Peak winds were estimated near 75 mph.

A weak low pressure system moved generally eastward across southern Missouri to the confluence of the Mississippi and Ohio Rivers. Ahead of this low, clusters of thunderstorms moved east-southeast across western Kentucky. These storms were aided by a small 500 mb shortwave trough sliding east-southeast across the Lower Ohio Valley. The storms occurred in a region of moderately strong wind shear. Winds were generally from 20 to 30 knots throughout the lower and mid levels of the atmosphere, but with strong directional shear. Rich low-level moisture was present, with surface dew points in the lower 70's. A couple of weak tornadoes occurred in this moist and moderately sheared environment.

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| ocation | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details | |
|--|---|---|--|--|--|
| IVINGSTON, (KY-Z008) MARSHAL | (MAN, (KY-Z003) CARLISLE, (KY-Z004) B. L, (KY-Z009) CALLOWAY, (KY-Z010) CRIT | | | | |
| KY-Z015) WEBSTER, (KY-Z016) HC | 08/19/14 01:00 CST | | 0 | Dense Fog | |
| | 08/19/14 07:00 CST | | 0 | _ = = = = = = = = = = = = = = = = = = = | |
| - | lerson to Madisonville to Murray, the com og to form. Visibility was reduced to one-o | | = | | |
| MCCRACKEN COUNTY (PAH)BA | RKLEY ARPT PA [37.07, -88.77] 08/19/14 15:40 CST | | 0 | Thunderstorm Wind (MG 55 kt) | |
| | 08/19/14 15:40 CST | | 0 | Source: ASOS | |
| a small cluster of severe thunderst linois, then into the Paducah area irport just before the storms weak | d by the automated observing system at Ba orms that originated over southeast Miss of western Kentucky. An isolated damag ened. The storms occurred during the he t Lakes region. The storms were aided by | souri moved east ling wind gust to eat of the afternoo | -southeast across near 65 mph was i on along a weaken | measured at the Paducah ing surface trough that | |
| K1-2014) UNION, (K1-2015) WEBS | 1ER, (K1-2016) HOPKINS, (K1-2017) CHI | RISTIAN, (KY-Z01 | 8) HENDERSON, (| KY-Z019) DAVIESS, (KY-Z020) | |
| MCLEAN, (KY-Z021) MUHLENBERG | | RISTIAN, (KY-Z01 | 8) HENDERSON, (0 0 | KY-Z019) DAVIESS, (KY-Z020) Heat | |
| MCLEAN, (KY-Z021) MUHLENBERG A prolonged period of late summer between 100 and 110 degrees each area on the 23rd. Surface high pres Mountains by the 25th. This high pr | 6, (KY-Z022) TODD 08/20/14 11:00 CST 08/27/14 17:00 CST heat and humidity followed an unusually afternoon. The heat index reached as higher over the central Gulf coast region for roduced a continuous supply of heat and | / cool July. For eigh as 115 at some rom the 20th to th | 0 0 ight consecutive de locations in the h | Heat lays, the heat index peaked Henderson/Owensboro the southern Appalachian | |
| A prolonged period of late summer between 100 and 110 degrees each area on the 23rd. Surface high pres Mountains by the 25th. This high presooner along the Tennessee border | 08/20/14 11:00 CST 08/27/14 17:00 CST 08/27/14 17:00 CST heat and humidity followed an unusually afternoon. The heat index reached as higher over the central Gulf coast region for roduced a continuous supply of heat and r. K GROVE [36.65, -87.46] | / cool July. For eigh as 115 at some rom the 20th to th | 0 0 ight consecutive de locations in the he le 24th moved to ti ple-digit heat indi | Heat lays, the heat index peaked Henderson/Owensboro he southern Appalachian ces ended a couple days | |
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MISSOURI, Southeast

A Kentucky mesonet site measured 3.29 inches of rain in a couple of hours.

storms were aided by a rather sharp 500 mb shortwave trough over Missouri.

Thunderstorms with torrential rainfall moved slowly across the same areas, producing up to three inches of rain per hour in very isolated spots. The storms occurred within a very moist southwest low level wind flow. Surface dew points were in the lower 70's. The

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| BUTLER COUNTY 2.0 W POPLAR BLUFF [36.75, -90.44] 08/06/14 14:01 CST 0 08/06/14 14:01 CST 0 08/06/14 14:01 CST 0 08/06/14 14:01 CST 0 08/06/14 14:15 CST 0 08/06/14 14:15 CST 0 A few strong storms occurred as the leading edge of warmer and more humid air moved into southeast Missouri. southerly on the back side of a high pressure ridge over the Lower Ohio Valley. (MO-2076) PERRY, (MO-2086) BOLLINGER, (MO-2087) CAPE GIRARDEAU, (MO-2100) WAYNE, (MO-2107) CARTER BUTLER, (MO-2110) STODDARD, (MO-2111) SCOTT, (MO-2112) MISSISSIPPI, (MO-2114) NEW MADRID 0 CST 0 0 08/19/14 07:00 CST 0 0 08/19/14 07:00 CST 0 0 08/19/14 13:45 CST 0 0 08/19/14 14:00 CST 0 0 0 | (MO-Z108) RIPLEY, (MO-Z109) Dense Fog |
|--|--|
| 08/06/14 14:01 CST 0 BUTLER COUNTY 5.0 S POPLAR BLUFF [36.68, -90.40] 08/06/14 14:15 CST 0 08/06/14 14:15 CST 0 A few strong storms occurred as the leading edge of warmer and more humid air moved into southeast Missouri. Southerly on the back side of a high pressure ridge over the Lower Ohio Valley. MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID 08/19/14 02:00 CST 0 08/19/14 07:00 CST 0 The combination of mostly clear skies, calm winds, and abundant low level moisture caused dense fog to form in was reduced to one-quarter mile or less at times in the dense fog. BOLLINGER COUNTY SCOPUS [37.40, -89.93] 08/19/14 13:45 CST 0 08/19/14 13:45 CST 0 08/19/14 13:45 CST 0 08/19/14 14:00 CST 0 | Source: Trained Spotter Hail (0.75 in) Source: Trained Spotter Vinds became (MO-Z108) RIPLEY, (MO-Z109) Dense Fog |
| BUTLER COUNTY 5.0 S POPLAR BLUFF [36.68, -90.40] 08/06/14 14:15 CST 08/06/14 14:15 CST 0 08/06/14 14:15 CST 0 08/06/14 14:15 CST 0 08/06/14 14:15 CST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Hail (0.75 in) Source: Trained Spotter Vinds became (MO-Z108) RIPLEY, (MO-Z109) Dense Fog |
| 08/06/14 14:15 CST 0 08/06/14 02:00 CST 0 08/19/14 02:00 CST 0 08/19/14 07:00 CST 0 08/19/14 07:00 CST 0 08/19/14 13:45 CST 0 08/19/14 14:00 CST 0 | Source: Trained Spotter Vinds became (MO-Z108) RIPLEY, (MO-Z109) Dense Fog |
| New strong storms occurred as the leading edge of warmer and more humid air moved into southeast Missouri. Noutherly on the back side of a high pressure ridge over the Lower Ohio Valley. MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID 08/19/14 07:00 CST 0 08/19/14 07:00 CST 0 08/19/14 13:45 CST 0 08/19/14 14:00 CST | Source: Trained Spotter Vinds became (MO-Z108) RIPLEY, (MO-Z109) Dense Fog |
| A few strong storms occurred as the leading edge of warmer and more humid air moved into southeast Missouri. Southerly on the back side of a high pressure ridge over the Lower Ohio Valley. MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID 08/19/14 02:00 CST 0 08/19/14 07:00 CST 0 The combination of mostly clear skies, calm winds, and abundant low level moisture caused dense fog to form in was reduced to one-quarter mile or less at times in the dense fog. BOLLINGER COUNTY SCOPUS [37.40, -89.93] 08/19/14 13:45 CST 0 08/19/14 13:45 CST 0 08/19/14 13:45 CST 0 08/19/14 13:45 CST 0 08/19/14 14:00 CST 0 0 08/19/14 14:00 CST 0 08/19/14 14:00 CST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Vinds became (MO-Z108) RIPLEY, (MO-Z109) Dense Fog |
| MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID 08/19/14 07:00 CST 0 08/19/14 07:00 CST 0 The combination of mostly clear skies, calm winds, and abundant low level moisture caused dense fog to form in was reduced to one-quarter mile or less at times in the dense fog. BOLLINGER COUNTY SCOPUS [37.40, -89.93] 08/19/14 13:45 CST 0 08/19/14 13:45 CST 0 08/19/14 13:45 CST 0 08/19/14 13:45 CST 0 08/19/14 14:00 CST 0 0 08/19/14 14:00 CST 0 08/19/14 14:00 CST 0 0 0 08/19/14 14:00 CST 0 0 0 08/19/14 14:00 CST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | (MO-Z108) RIPLEY, (MO-Z109) Dense Fog |
| BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID 08/19/14 02:00 CST 0 08/19/14 07:00 CST 0 The combination of mostly clear skies, calm winds, and abundant low level moisture caused dense fog to form in was reduced to one-quarter mile or less at times in the dense fog. BOLLINGER COUNTY SCOPUS [37.40, -89.93] 08/19/14 13:45 CST 0 08/19/14 13:45 CST 0 Baseball-size hail was reported near the intersection of Highways B and M. CAPE GIRARDEAU COUNTY JACKSON [37.38, -89.67] 08/19/14 14:00 CST 0 den-egg size hail was observed in the community. CAPE GIRARDEAU COUNTY CAPE GIRARDEAU [37.30, -89.53] 08/19/14 14:17 CST 0 | Dense Fog |
| 08/19/14 02:00 CST 0 08/19/14 07:00 CST 0 The combination of mostly clear skies, calm winds, and abundant low level moisture caused dense fog to form in was reduced to one-quarter mile or less at times in the dense fog. BOLLINGER COUNTY SCOPUS [37.40, -89.93] 08/19/14 13:45 CST 0 08/19/14 13:45 CST 0 Baseball-size hail was reported near the intersection of Highways B and M. CAPE GIRARDEAU COUNTY JACKSON [37.38, -89.67] 08/19/14 14:00 CST 0 08/19/14 14:00 CST 0 08/19/14 14:00 CST 0 08/19/14 14:00 CST 0 | |
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| O8/19/14 13:45 CST O Baseball-size hail was reported near the intersection of Highways B and M. CAPE GIRARDEAU COUNTY JACKSON [37.38, -89.67] 08/19/14 14:00 CST O 08/19/14 14:00 CST O Hen-egg size hail was observed in the community. CAPE GIRARDEAU COUNTY CAPE GIRARDEAU [37.30, -89.53] 08/19/14 14:17 CST O | |
| O8/19/14 13:45 CST O Baseball-size hail was reported near the intersection of Highways B and M. CAPE GIRARDEAU COUNTY JACKSON [37.38, -89.67] 08/19/14 14:00 CST O 08/19/14 14:00 CST O Hen-egg size hail was observed in the community. CAPE GIRARDEAU COUNTY CAPE GIRARDEAU [37.30, -89.53] 08/19/14 14:17 CST O | 11.17.6.75 |
| CAPE GIRARDEAU COUNTY JACKSON [37.38, -89.67] 08/19/14 14:00 CST 0 08/19/14 14:00 CST 0 O8/19/14 14:00 CST CAPE GIRARDEAU COUNTY CAPE GIRARDEAU [37.30, -89.53] 08/19/14 14:17 CST 0 | Hail (2.75 in) |
| CAPE GIRARDEAU COUNTY JACKSON [37.38, -89.67] 08/19/14 14:00 CST 0 08/19/14 14:00 CST 0 Hen-egg size hail was observed in the community. CAPE GIRARDEAU COUNTY CAPE GIRARDEAU [37.30, -89.53] 08/19/14 14:17 CST 0 | Source: Emergency Manager |
| 08/19/14 14:00 CST 0 08/19/14 14:00 CST 0 Hen-egg size hail was observed in the community. CAPE GIRARDEAU COUNTY CAPE GIRARDEAU [37.30, -89.53] 08/19/14 14:17 CST 0 | |
| 08/19/14 14:00 CST 0 Hen-egg size hail was observed in the community. CAPE GIRARDEAU COUNTY CAPE GIRARDEAU [37.30, -89.53] 08/19/14 14:17 CST 0 | Hail (2.00 in) |
| Hen-egg size hail was observed in the community. CAPE GIRARDEAU COUNTY CAPE GIRARDEAU [37.30, -89.53] 08/19/14 14:17 CST 0 | Hail (2.00 in) |
| CAPE GIRARDEAU COUNTY CAPE GIRARDEAU [37.30, -89.53] 08/19/14 14:17 CST 0 | Source: Broadcast Media |
| 08/19/14 14:17 CST 0 | |
| | Hail (0 88 in) |
| 08/19/14 14:17 CS1 0 | Hail (0.88 in) |
| | Source: Emergency Manager |
| CAPE GIRARDEAU COUNTY JACKSON [37.38, -89.67] | Lightning |
| 08/19/14 14:31 CST 10K | Lightning |
| 08/19/14 14:31 CST 0 | Charles and Charles and the Ch |
| Several trees and large branches were down due to numerous lightning strikes. | Source: Emergency Manager |
| A small cluster of thunderstorms rapidly became severe over central Bollinger County. This cluster of storms pro as it tracked east-southeast across central Cape Girardeau County and then into southern Illinois. The storms dev heat of the afternoon along a weakening surface trough that extended southward from the Great Lakes region. Th | Source: Emergency Manager |

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

08/20/14 11:00 CST 0 Heat 08/27/14 17:00 CST 0

prolonged period of late summer heat and humidity followed an unusually cool, July. For seven to a

A prolonged period of late summer heat and humidity followed an unusually cool July. For seven to eight consecutive days, the heat index peaked between 100 and 110 degrees each afternoon. Surface high pressure over the central Gulf coast region from the 20th to the 24th moved to the southern Appalachian Mountains by the 25th. This high produced a continuous supply of heat and humidity.

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